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# New Mexico's Timber Production and Mill Residue, 1986

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## THE AUTHOR

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## ACKNOWLEDGMENTS

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## RESEARCH SUMMARY

New Mexico's timber production in 1986 was 30.1 million cubic feet, down 17 percent from 1974. Sawlog production was 27.8 million cubic feet. The mill residue volume was estimated at 22.6 million cubic feet. The volume of residue used was 18.2 million cubic feet.

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## INTRODUCTION

This bulletin reports the estimated timber production and mill residue of New Mexico in 1986, coinciding with the year of forest inventory.

The data for this report (see tables 1 through 21) were obtained by canvassing primary wood processing plants in 1987. These plants were identified from "Wood Industries of New Mexico: A Guide to Wood Using Industries, 1983," updated by the New Mexico Energy, Minerals, and Natural Resources Department, Forestry Division. In addition to canvassing the resident mills, those firms outside New Mexico but consuming timber products that originated within the State were also contacted. In both cases, mill operators were asked to supply information about the timber used by them during 1986. This information included ownership and county of origin of timber products consumed, species, type of product, and an estimate of mill residue produced by type. Appendix I includes conversion factors used in this report, and appendix II is a list of the participating primary wood processors.

## TIMBER PRODUCTION

In 1986, New Mexico's timber production, excluding fuelwood, was 30.1 million cubic feet, down 17 percent from 1974's 36.1 million cubic feet, which included fuelwood (fig. 1). Sawlogs continued to be the predominant product (table 1), accounting for 93 percent (27.8 million cubic feet) of the volume of all industrial roundwood harvested and about matching the 1974 sawlog production (fig. 2). The reported volume of other products, consisting of posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs, was 2.2 million cubic feet. This was down substantially from the 8.2 million cubic feet produced in 1974 (the 1974 estimate included fuelwood; the 1986 estimate does not). Of the reported timber products, 77 percent went to mills with annual production capacities exceeding 10 million board feet, lumber tally (table 21). Ponderosa pine (*Pinus ponderosa*) (20.6 million cubic feet) made up 69 percent of the harvest (table 1). Live trees provided 99 percent (29.7 million cubic feet) of the timber production. Growing stock removals due to harvest were 31.3 million cubic feet. (Removals factor derived from data collected on logging operations in New Mexico. This will be addressed in a separate publication.) Sawtimber removals (factor equaled 1) were 166.2 million board feet, Scribner rule, the same as the board-foot Scribner production.

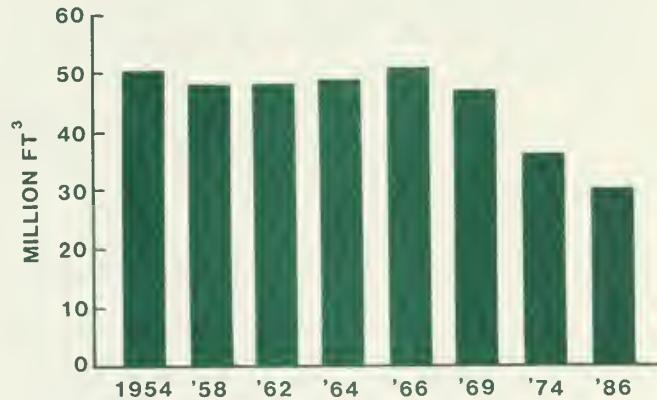


Figure 1—New Mexico's timber production by selected years (Setzer and Barrett 1977; Setzer 1971). The 1986 estimate does not include fuelwood; estimates from other years do.

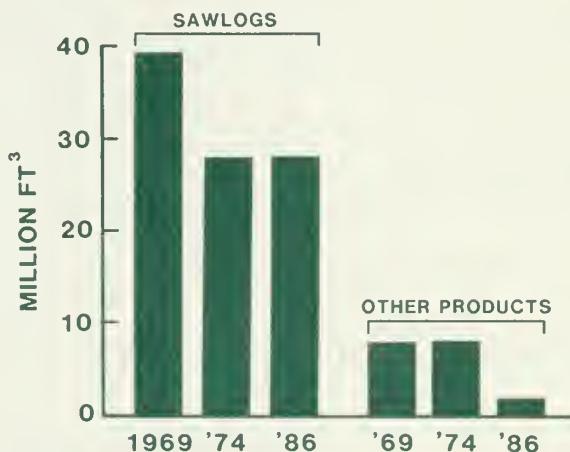


Figure 2—New Mexico's timber production by product for selected years (Setzer and Barrett 1977; Setzer 1971). The "other products" category includes: for 1969, mine timbers, posts, fuelwood, and miscellaneous farm timbers; for 1974, mine timbers, posts, fuelwood, miscellaneous farm timbers, commercial poles, and house logs; for 1986, posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs. Estimates of fuelwood harvest for 1969 and 1974, thought to be small, cannot be found except as combined with other products. The fuelwood harvest estimate for 1986, a significant volume, is treated in a separate publication.

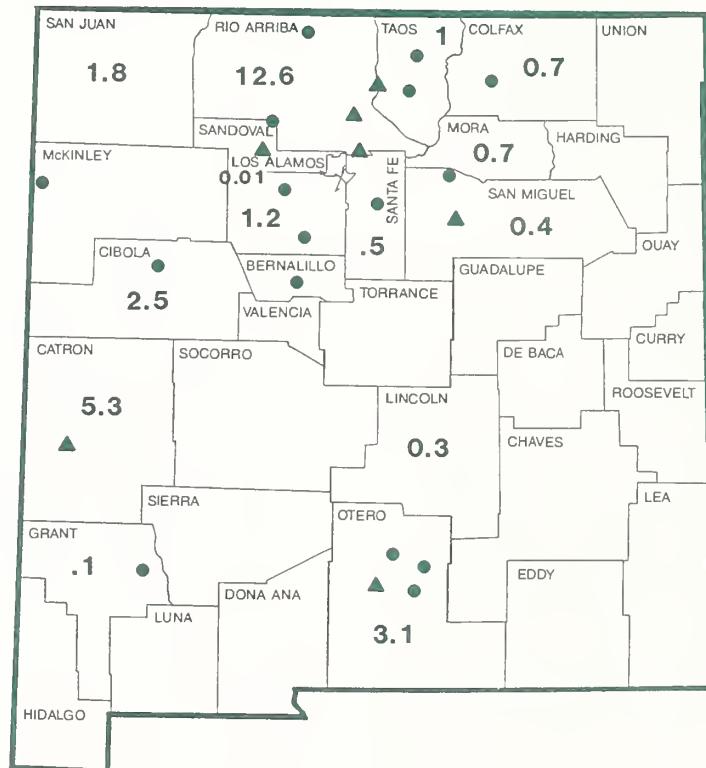
Rio Arriba County provided 42 percent (12.6 million cubic feet) of New Mexico's timber harvest in 1986 (table 7), equaling the production of the next four highest producers: Catron, Otero, Cibola, and San Juan Counties (figs. 3 and 4). Sawlog production increased in Rio Arriba and San Juan Counties, decreased in Catron, Otero, and Sandoval Counties, and did a little of each in Cibola County compared to past years (fig. 4). (The 1986 production of Cibola County is compared to previous years' production of Valencia County. The timber-producing region of Valencia County became Cibola County in 1981.)

National Forest lands accounted for 84 percent of the timber products harvested in 1986 (table 4), compared to 61 percent in 1974 and 50 percent in 1966 (Setzer and Barrett 1977).

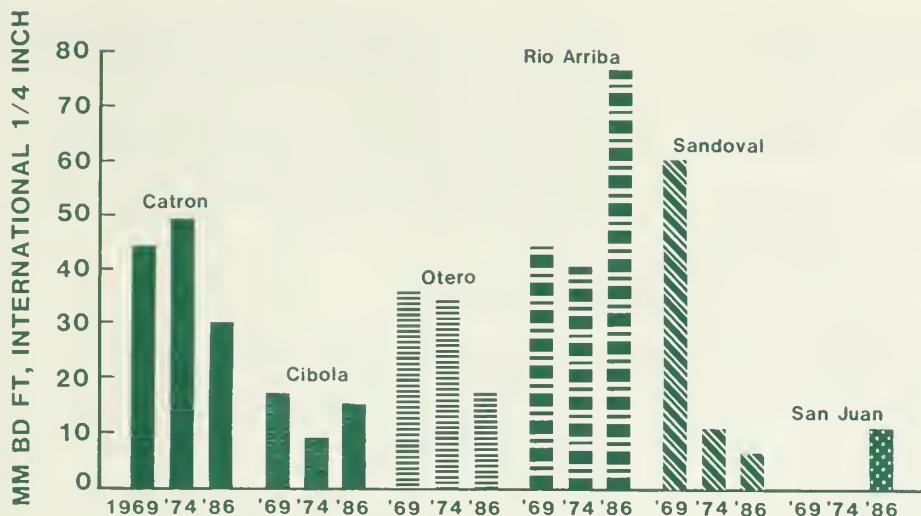
## MILL RESIDUE

The estimated sawlog harvest for 1986 (27.8 million cubic feet) about equaled the 1974 sawlog harvest (27.9 million cubic feet). The mill residue productions were also about equal: 22.6 million cubic feet in 1986 and 21.9 million cubic feet in 1974. However, the volume of mill residue reportedly used differed significantly between the 2 years. In 1986, 18.2 million cubic feet, or 81 percent of the total available, was sold, used, or given away as pulp chips or board fiber, industrial or household fuel, landscaping material, livestock bedding, mulch, lawn filler, or absorbent (table 19). In 1974, 50 percent of the mill residue volume was used (fig. 5).

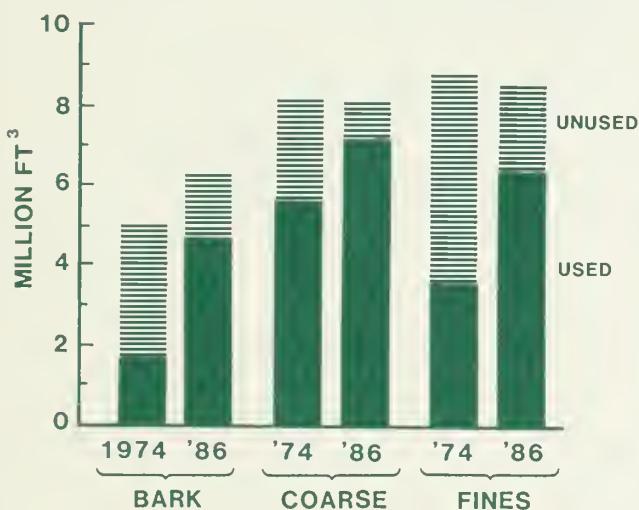
Mill residue estimates are a mixture of volumes reported directly by the mills, in varying units of measure, plus those derived by applying factors to reported log volume receipts (see appendix I, "Conversion Factors").



**Figure 3—Timber production by county in millions of cubic feet and locations of primary wood processors in New Mexico, 1986 (from mill canvass respondents). Key: ● = 1 mill; ▲ = 2 mills.**



**Figure 4**—A comparison of mill receipts of sawlogs from New Mexico timberlands by selected county of origin for a selected 3 years (Setzer and Barrett 1977; Setzer 1971). (The 1986 production of Cibola county is compared to the 1974 and 1969 production of Valencia county. The timber producing region of Valencia county became Cibola county in 1981.)



**Figure 5**—A comparison of used and unused residue from mills in New Mexico, 1974 and 1986, in million cubic feet (1974 data from Setzer and Barrett 1977).

## PRIMARY WOOD PROCESSORS

Numbers of primary wood processing plants responding to the 1987 canvass were:

Sawmills	25
Sawmill/post and pole yard	1
House log plant	2
Post and pole treating plant	1
Fiberboard plant	1
Excelsior plant	1

## TERMINOLOGY

**Bone dry units**—2,400 pounds.

**Coarse residue**—That part of sawmill or mill residue suitable for chipping, such as slabs, edgings, and trimmings.

**Fine residue**—That part of sawmill or mill residue that is finer than coarse residue and consists of sawdust and shavings.

**Growing-stock removals** (in this publication)—The growing-stock volume removed from inventory by harvesting. Consists of logging residue and the growing-stock volume of products.

**Growing-stock trees** (in this publication)—Live sawtimber trees and poletimber trees meeting specified standards of quality and vigor; excludes cull trees.

**Growing-stock volume**—Net cubic-foot volume in live poletimber-size and sawtimber-size growing-stock trees from a 1-foot stump to a minimum 4-inch top (of central stem) outside bark or to the point where the central stem breaks into limbs.

**Industrial wood products**—All timber products except fuelwood.

**Logging residue**—The unused growing-stock or sawtimber volume of trees cut or killed by logging and left in the woods.

**M**—Thousand.

**Mbf**—Thousand board feet.

**Mill residue**—Wood material from primary manufacturing plants not utilized for the mill's primary product. Includes bark, slabs, edgings, trimmings, miscuts, sawdust, and shavings.

**Poletimber trees**—Live trees of timber species at least 5 inches diameter at breast height (d.b.h.) but smaller than sawtimber size.

**Removals** (in this publication)—The growing-stock and sawtimber volume removed from the inventory by harvesting. Consists of logging residue and the growing-stock and sawtimber volume of products.

**Sawlog portion**—That part of the bole of sawtimber trees between a 1-foot stump and the sawlog top.

*Sawlog top*—The portion of the bole of sawtimber trees above which a sawlog cannot be produced. The minimum sawlog top is 7 inches diameter outside bark (d.o.b.) for softwoods and 9 inches d.o.b. for hardwoods.

*Sawtimber product volume*—The sawtimber volume in timber products.

*Sawtimber removals* (in this publication)—The sawtimber volume removed from inventory by harvesting. Consists of logging residue and the sawtimber volume of products.

*Sawtimber trees*—Live trees of timber species meeting regional size and defect specifications. Softwood trees must be at least 9 inches d.b.h. and hardwood trees 11 inches d.b.h.

*Sawtimber volume*—Net volume in board feet of the sawlog portion of live sawtimber trees.

*Timber production*—The harvested volume of timber products. Also called industrial roundwood production or industrial wood production. Timber products or industrial roundwood (products) refer to logs, bolts, or other round sections cut from trees for industrial or

consumer use and delivered “in the round” as logs or bolts to sawmills, plants, or yards. The term “timber products,” in this report, does not include fuelwood. Included are sawlogs, pulpwood, utility poles, corral poles and posts, house logs, excelsior bolts, and fiber logs. Mine timbers, landscaping timbers, and veneer logs would be included had they been reported as harvested.

## REFERENCES

Setzer, Theodore S.; Barrett, Michael K. 1977. New Mexico timber production and mill residues, 1974. Res. Note INT-231. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station. 6 p.

Setzer, Theodore S. 1971. Estimates of timber products output and plant residues, New Mexico, 1969. Res. Note INT-134. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station. 4 p.

# FOREST SURVEY TABLES

Table 1--Cubic volume of timber products harvested in New Mexico by species and product, 1986

Species	Product		
	Sawlogs	Other <sup>1</sup> products	All <sup>2</sup> products
<u>Thousand cubic feet</u>			
True fir	2,622	136	2,758
Engelmann spruce	839	142	981
Ponderosa pine	20,014	609	20,623
Douglas-fir	4,369	326	4,695
Other softwoods <sup>3</sup>	--	6	6
Aspen	--	1,032	1,032
All species <sup>2</sup>	27,844	2,251	30,095

<sup>1</sup>Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

<sup>2</sup>Data may not sum to totals due to truncating or rounding.

<sup>3</sup>Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 2--Board foot volume of timber products harvested in New Mexico by species and product, 1986

Species	Product		
	Sawlogs	Other <sup>1</sup> products	All <sup>2</sup> products
<u>Thousand board feet, Scribner rule</u>			
True fir	14,503	756	15,259
Engelmann spruce	4,633	790	5,423
Ponderosa pine	110,756	3,034	113,790
Douglas-fir	24,173	1,814	25,987
Other softwoods <sup>3</sup>	--	35	35
Aspen	--	5,708	5,708
All species <sup>2</sup>	154,065	12,137	166,202

<sup>1</sup>Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

<sup>2</sup>Data may not sum to totals due to truncating or rounding.

<sup>3</sup>Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 3--Board foot volume of timber products harvested in New Mexico by species and product, 1986

Species	Product		
	Sawlogs	Other <sup>1</sup> products	All <sup>2</sup> products
- - - Thousand board feet, International $\frac{1}{2}$ -inch rule - -			
True fir	16,128	840	16,968
Engelmann spruce	5,151	879	6,030
Ponderosa pine	123,159	3,373	126,532
Douglas-fir	26,881	2,017	28,898
Other softwoods <sup>3</sup>	--	39	39
Aspen	--	6,348	6,348
All species <sup>2</sup>	171,319	13,496	184,815

<sup>1</sup>Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

<sup>2</sup>Data may not sum to totals due to truncating or rounding.

<sup>3</sup>Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 4--Cubic volume of timber products harvested in New Mexico by owner and product, 1986

Owner	Product		
	Sawlogs	Other <sup>1</sup> products	All <sup>2</sup> products
- - - - - Thousand cubic feet - - - - -			
National Forest	24,290	1,069	25,359
Bureau of Land Management	7	--	7
Private	3,547	1,182	4,729
All owners <sup>2</sup>	27,844	2,251	30,095

<sup>1</sup>Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

<sup>2</sup>Data may not sum to totals due to truncating or rounding.

Table 5--Board foot volume of timber products harvested in New Mexico by owner and product, 1986

Owner	Product		
	Sawlogs	Other <sup>1</sup> products	All <sup>2</sup> products
- - - - - Thousand board feet, Scribner rule - - - - -			
National Forest	134,403	5,587	139,990
Bureau of Land Management	40	--	40
Private	19,622	6,550	26,172
All owners <sup>2</sup>	154,065	12,137	166,202

<sup>1</sup>Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

<sup>2</sup>Data may not sum to totals due to truncating or rounding.

Table 6--Board foot volume of timber products harvested in New Mexico by owner and product, 1986

Owner	Product		
	Sawlogs	Other <sup>1</sup> products	All <sup>2</sup> products
- - - Thousand board feet, International $\frac{1}{2}$ -inch rule - - -			
National Forest	149,459	6,212	155,671
Bureau of Land Management	44	--	44
Private	21,816	7,284	29,100
All owners <sup>2</sup>	171,319	13,496	184,815

<sup>1</sup>Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

<sup>2</sup>Data may not sum to totals due to truncating or rounding.

Table 7--Cubic volume of timber products harvested in New Mexico by product and county, 1986

Product	County										All <sup>1</sup> counties				
	Catron	Cibola	Colfax	Grant	Lincoln	Los Alamos	Mora	Otero	Rio Arriba	Sandoval	San Juan	Miguel	Santa Fe	Taos	
- - - - - Thousand cubic feet - - - - -															
Sawlogs	5,003	2,504	--	117	261	10	357	2,906	12,506	1,041	1,756	--	517	866	27,844
Other products <sup>2</sup>	331	--	723	--	--	--	315	164	94	140	--	371	--	113	2,251
All products <sup>1</sup>	5,334	2,504	723	117	261	10	672	3,070	12,600	1,181	1,756	371	517	979	30,095

<sup>1</sup>Data may not sum to totals due to truncating or rounding.<sup>2</sup>Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

Table 8--Board foot volume of timber products harvested in New Mexico by product and county, 1986

Product	County										All <sup>1</sup> counties				
	Catron	Cibola	Colfax	Grant	Lincoln	Los Alamos	Mora	Otero	Rio Arriba	Sandoval	San Juan	Miguel	Santa Fe	Taos	
- - - - - Thousand board feet, Scribner rule - - - - -															
Sawlogs	27,685	13,857	--	650	1,450	54	1,973	16,075	69,197	5,757	9,713	--	2,865	4,789	154,065
Other products <sup>2</sup>	2,109	--	4,000	--	--	--	1,750	907	520	175	--	2,050	--	626	12,137
All products <sup>1</sup>	29,794	13,857	4,000	650	1,450	54	3,723	16,982	69,717	5,932	9,713	2,050	2,865	5,415	166,202

<sup>1</sup>Data may not sum to totals due to truncating or rounding.<sup>2</sup>Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

Table 9--Board foot volume of timber products harvested in New Mexico by product and county, 1986

Product	County										All counties			
	Catron	Cibola	Colfax	Grant	Lincoln	Los Alamos	Mora	Otero	Rio Arriba	Sandoval	San Juan	Santa Fe	Taos	
- - - - - Thousand board feet, International 1-inch rule - - - - -														
Sawlogs	30,788	15,409	--	722	1,611	60	2,193	17,874	76,948	6,401	10,801	--	3,186	5,326
Other products <sup>2</sup>	2,345	--	4,448	--	--	--	1,946	1,009	578	194	--	2,280	--	696
All products <sup>1</sup>	33,133	15,409	4,448	722	1,611	60	4,139	18,883	77,526	6,595	10,801	2,280	3,186	6,022
														184,815

<sup>1</sup>Data may not sum to totals due to truncating or rounding.

<sup>2</sup>Includes posts, corral poles, utility poles, round pulpwood, house logs, excelsior bolts, and fiber logs.

Table 10--Cubic volume of timber products harvested in New Mexico by species and county, 1986

Species	County										All counties				
	Catron	Cibola	Colfax	Grant	Lincoln	Los Alamos	Mora	Otero	Rio Arriba	Sandoval	San Juan	Miguel	Santa Fe	Taos	
- - - - - Thousand cubic feet - - - - -															
True fir	156	129	--	--	36	1	102	580	1,479	70	--	67	54	84	2,758
Engelmann spruce	--	37	--	--	--	3	111	--	541	15	--	25	36	213	981
Ponderosa pine	4,843	2,025	--	115	162	1	109	1,287	8,772	953	1,756	102	373	125	20,623
Douglas-fir	335	313	--	2	63	5	331	1,039	1,808	143	--	158	54	444	4,695
Other softwoods <sup>2</sup>	--	--	--	--	--	--	3	--	--	--	--	3	--	--	6
Aspen	--	--	723	--	--	--	16	164	--	--	--	16	--	113	1,032
All species <sup>1</sup>	5,334	2,504	723	117	261	10	672	3,070	12,600	1,181	1,756	371	517	979	30,095

<sup>1</sup>Data may not sum to totals due to truncating or rounding.

<sup>2</sup>Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 11-Board foot volume of timber products harvested in New Mexico by species and county, 1986

Species	County										All <sup>1</sup> counties				
	Catron	Cibola	Colfax	Grant	Lincoln	Los Alamos	Mora	Otero	Rio Arriba	Sandoval	San Juan	San Miguel	Santa Fe	Taos	
- - - - - Thousand board feet, Scribner rule - - - - -															
True fir	870	713	--	--	200	3	567	3,205	8,184	385	--	368	300	464	15,259
Engelmann spruce	--	203	--	--	--	16	615	--	2,991	81	--	140	200	1,177	5,423
Ponderosa pine	27,063	11,209	--	637	900	8	603	7,124	48,538	4,674	9,713	563	2,065	693	113,790
Douglas-fir	1,861	1,732	--	13	350	27	1,832	5,746	10,004	792	--	875	300	2,455	25,987
Other softwoods <sup>2</sup>	--	--	--	--	--	--	18	--	--	--	--	17	--	--	35
Aspen	--	--	4,000	--	--	--	88	907	--	--	--	87	--	626	5,708
All species <sup>1</sup>	29,794	13,857	4,000	650	1,450	54	3,723	16,982	69,717	5,932	9,713	2,050	2,865	5,415	166,202

<sup>1</sup>Data may not sum to totals due to truncating or rounding.

<sup>2</sup>Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 12--Board foot volume of timber products harvested in New Mexico by species and county, 1986

Species	County										All <sup>1</sup> counties				
	Catron	Cibola	Colfax	Grant	Lincoln	Los Alamos	Mora	Otero	Rio Arriba	Sandoval	San Juan	San Miguel	Santa Fe	Taos	
- - - - - Thousand board feet, International 4-inch rule - - - - -															
True fir	968	793	--	--	222	3	630	3,563	9,102	428	--	409	334	516	16,968
Engelmann spruce	--	226	--	--	--	18	684	--	3,325	90	--	156	222	1,309	6,030
Ponderosa pine	30,095	12,464	--	708	1,000	9	670	7,922	53,974	5,196	10,801	626	2,296	771	126,532
Douglas-fir	2,070	1,926	--	14	389	30	2,037	6,389	11,125	881	--	973	334	2,730	28,898
Other softwoods <sup>2</sup>	--	--	--	--	--	--	20	--	--	--	--	19	--	--	39
Aspen	--	--	4,448	--	--	--	98	1,009	--	--	--	97	--	696	6,348
All species <sup>1</sup>	33,133	15,409	4,448	722	1,611	60	4,139	18,883	77,526	6,595	10,801	2,280	3,186	6,022	184,815

<sup>1</sup>Data may not sum to totals due to truncating or rounding.

<sup>2</sup>Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 13--Cubic volume of timber products harvested in New Mexico by owner and county, 1986

Owner	County										All <sup>1</sup> counties				
	Catron	Cibola	Colfax	Grant	Lincoln	Los Alamos	Mora	Otero	Rio Arriba	Sandoval	San Juan	San Miguel	Santa Fe	Taos	
- - - - - Thousand cubic feet - - - - -															
National Forest	5,334	2,504	--	117	--	10	24	2,799	12,485	429	--	317	361	979	25,359
Bureau of Land Management	--	--	--	--	--	--	--	--	--	7	--	--	--	--	7
Private	--	--	723	--	--	648	271	115	745	1,756	54	156	--	--	4,729
All owners <sup>1</sup>	5,334	2,504	723	117	261	10	672	3,070	12,600	1,181	1,756	371	517	979	30,095

<sup>1</sup>Data may not sum to totals due to truncating or rounding.

Table 14--Board foot volume of timber products harvested in New Mexico by owner and county, 1986

Owner	County										All <sup>1</sup> counties				
	Catron	Cibola	Colfax	Grant	Lincoln	Los Alamos	Mora	Otero	Rio Arriba	Sandoval	San Juan	San Miguel	Santa Fe	Taos	
- - - - - Thousand board feet, Scribner rule - - - - -															
National Forest	29,794	13,857	--	650	--	54	135	15,482	69,079	1,774	--	1,750	2,000	5,415	139,990
Bureau of Land Management	--	--	--	--	1,450	--	3,588	1,500	--	40	--	--	--	--	40
Private	--	--	4,000	--	--	--	3,588	1,500	638	4,118	9,713	300	865	--	26,172
All owners <sup>1</sup>	29,794	13,857	4,000	650	1,450	54	3,723	16,982	69,717	5,932	9,713	2,050	2,865	5,415	166,202

<sup>1</sup>Data may not sum to totals due to truncating or rounding.

Table 15--Board foot volume of timber products harvested in New Mexico by owner and county, 1986

Owner	County										All 11 counties				
	Catron	Cibola	Colfax	Grant	Lincoln	Los Alamos	Mora	Otero	Rio Arriba	Sandoval	San Juan	San Miguel	Santa Fe	Taos	
- - - - - Thousand board feet, International 4-inch rule - - - - -															
National Forest	33,133	15,409	--	722	--	60	150	17,216	76,817	1,972	--	1,946	2,224	6,022	155,671
Bureau of Land Management	--	--	--	4,448	--	1,611	--	3,989	1,667	--	44	--	--	--	44
Private	--	--	--	--	--	--	--	709	4,579	10,801	334	962	--	--	29,100
All owners <sup>1</sup>	33,133	15,409	4,448	722	1,611	60	4,139	18,883	77,526	6,595	10,801	2,280	3,186	6,022	184,815

<sup>1</sup>Data may not sum to totals due to truncating or rounding.

Table 16--Cubic volume of timber products harvested in New Mexico by species and owner, 1986

Species	Owner			All 11 owners
	National Forest	Bureau of Land Management	Private	
- - - - - Thousand cubic feet - - - - -				
True fir	2,509	--	249	2,758
Engelmann spruce	764	--	217	981
Ponderosa pine	17,701	7	2,915	20,623
Douglas-fir	4,089	--	606	4,695
Other softwoods <sup>2</sup>	3	--	3	6
Aspen	293	--	739	1,032
All species <sup>1</sup>	25,359	7	4,729	30,095

<sup>1</sup>Data may not sum to totals due to truncating or rounding.

<sup>2</sup>Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 17--Board foot volume of timber products harvested in New Mexico by species and owner, 1986

Species	Owner		
	National Forest	Bureau of Land Management	Private
- - - - - Thousand board feet, Scribner rule - - - - -			
True fir	13,882	--	1,377
Engelmann spruce	4,226	--	1,197
Ponderosa pine	97,608	40	16,142
Douglas-fir	22,637	--	3,350
Other softwoods <sup>2</sup>	17	--	18
Aspen	1,620	--	4,088
All species <sup>1</sup>	139,990	40	26,172
			166,202

<sup>1</sup>Data may not sum to totals due to truncating or rounding.<sup>2</sup>Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 18--Board foot volume of timber products harvested in New Mexico by species and owner, 1986

Species	Owner		
	National Forest	Bureau of Land Management	Private
- - - - - Thousand board feet, International 1-inch rule - - - - -			
True fir	15,438	--	1,530
Engelmann spruce	4,699	--	1,331
Ponderosa pine	108,540	44	17,948
Douglas-fir	25,173	--	3,725
Other softwoods <sup>2</sup>	19	--	20
Aspen	1,802	--	4,546
All species <sup>1</sup>	155,671	44	29,100
			184,815

<sup>1</sup>Data may not sum to totals due to truncating or rounding.<sup>2</sup>Includes unidentified pines (possibly Mexican white pine) and limber pine.

Table 19--Estimated volume of used and unused residue from mills in New Mexico, 1986

Residue	Used						
	Product				Total used	Total unused	Total produced
	Pulp and boards	Plant fuel	Home fuel	Other			
<u>Thousand cubic feet</u>							
Bark	--	2,204	132	2,326	4,662	1,575	6,237
Coarse <sup>1</sup>	6,486	257	433	--	7,176	807	7,983
Fines <sup>2</sup>	4,436	1,351	--	604	6,391	2,000	8,391
Total	10,922	3,812	565	2,930	18,229	4,382	22,611

<sup>1</sup>Material suitable for chipping, such as slabs, edgings, and trim.<sup>2</sup>Sawdust and planer shavings.

Table 20--Estimated volume of used and unused residue from mills in New Mexico, 1986

Residue	Used						
	Product				Total used	Total unused	Total produced
	Pulp and boards	Plant fuel	Home fuel	Other			
<u>Bone dry units</u>							
Bark	--	22,033	1,314	23,265	46,612	15,750	62,362
Coarse <sup>1</sup>	64,853	2,565	4,308	--	71,726	8,039	79,765
Fines <sup>2</sup>	44,329	13,504	--	6,048	63,881	19,997	83,878
Total	109,182	38,102	5,622	29,313	182,219	43,786	226,005

<sup>1</sup>Material suitable for chipping, such as slabs, edgings, and trim.<sup>2</sup>Sawdust and planer shavings.

Table 21--Cubic volume of timber products harvested in New Mexico by size of mill, plant, or yard receiving products, 1986

	Mill capacity	Production
	<u>Million board feet, lumber tally</u>	<u>Million cubic feet</u>
More than 10		23.2
5.1 - 10		4.8
1.1 - 5		.8
1 or less		<u>1.4</u>
Total <sup>1</sup>		30.1

<sup>1</sup>Data may not sum to totals due to truncating or rounding.

## APPENDIX I: CONVERSION FACTORS

Table 22--Conversion factors used in preparing volume figures for this report

Product	Cords	Cubic feet	Board feet	
			Scribner rule	International $\frac{1}{4}$ -inch rule
Sawlogs <sup>1</sup>	--	1.0	5.533	6.155
Pulpwood <sup>2</sup>	1.0	78.6	500.000	556.000
Pulpwood	--	1.0	6.361	7.073
Utility poles <sup>3</sup>		1.0	5.000	5.560
Posts & corral poles <sup>4</sup>	--	1.0	.354	.394
<hr/>				
Mill residues				
BDU's <sup>5</sup> of mill residue per Mbft (Scribner) <sup>6</sup> of sawlogs				
Coarse		0.55		
Sawdust		0.33		
Planer shavings		0.29		
Bark		0.30		

<sup>1</sup>From timber utilization data collected on active logging operations in New Mexico in 1987.

<sup>2</sup>Standard conversion for New Mexico from Forest Service, U.S. Department of Agriculture.

<sup>3</sup>From mill canvass data, converted to cubic feet and board feet based on reported dimensions.

<sup>4</sup>Posts and corral poles with small end diameters less than 6 inches have zero board feet.

<sup>5</sup>Bone dry unit; 1 BDU = 2,400 lb = 100 cubic feet = 1.2 tons.

<sup>6</sup>Thousand board feet, Scribner rule.

## APPENDIX II: NEW MEXICO DIRECTORY OF PRIMARY WOOD PROCESSORS

The information in this appendix was supplied by mill canvass respondents.

<b>County</b>	<b>Name and mill location</b>	<b>Type of plant</b>	<b>County</b>	<b>Name and mill location</b>	<b>Type of plant</b>
Bernalillo	Bates Lumber Co. P.O. Box 7095 Albuquerque, NM 87194 505-247-1481 Mill location: 15 miles south of Albuquerque on east side of 2nd St.	Sawmill	Otero	Goss and Goss Lumber Co. Weed, NM 88354 505-687-3648 Jimmy Goss	Sawmill
Cibola	Blevins Lumber Company P.O. Box 548 Grants, NM 87020 505-287-8010	Sawmill	Otero	Vebco, Inc. 130 Montoya Rd. El Paso, TX 79932 915-581-8132 Mill location: Alamogordo, NM	Excelsior
Catron	Griffin's Wood Products HCR 1, Box 201 Reserve, NM 87830 505-533-6360 Glen Griffin, Owner	Sawmill	Rio Arriba	White Sands Forest Products Box 209 Alamogordo, NM 88310 505-437-1671 Mike Hess, Manager Mill Location: N. Eddy Rd. - Alamogordo	Sawmill
Catron	Stone Containers Box 445 Reserve, NM 87830 505-533-6321	Sawmill	Rio Arriba	Conklin Lumber Co. P.O. Box 696 Tres Piedras, NM 87577 505-758-4620 Donald L. Conklin, Owner	Sawmill
Colfax	Pacific Stud and Lumber Co. P.O. Box 488 Cimarron, NM 87714 505-376-2295 Mill location: Hwy 64-Cimarron	Sawmill	Rio Arriba	Conley Lumber P.O. Box 3474 FS Espanola, NM 87533 505-753-7746	Sawmill
Grant	Fowler Lumber Co. P.O. Box 47 Mimbres, NM 88049 505-536-9434 John Fowler, Owner	Sawmill	Rio Arriba	Duke City Lumber Co. P.O. Box 25807 Albuquerque, NM 87125 505-848-3649 Mill location: Vallecitos, NM	Sawmill
McKinley	Navajo Forest Products Industries P.O. Box 1280 Navajo, NM 87328 505-777-2211	Sawmill	Rio Arriba	Duke City Lumber Co. P.O. Box 25807 Albuquerque, NM 87125 505-848-3649 Mill location: Vallecitos, NM	Sawmill
Otero	Chippeway Lumber P.O. Box 162 Cloudcroft, NM 88317 505-682-2407	Sawmill	Rio Arriba	Kuykendall Lumber P.O. Box 734 Tres Piedras, NM 87577 505-758-3298 Gene Kuykendall, Owner	Sawmill
Otero	Dees Sawmill P.O. Box 24 Mayhill, NM 88339 505-687-3633 Bill Dees, Owner	Sawmill	Rio Arriba	W. H. Moore Cash Lumber P.O. Box 3706 Fairview St. Espanola, NM 87533 505-753-5717 W. H. Moore, Owner/Partner Mill location: Chama Hwy RT 285, Hernandez, NM	Sawmill

County	Name and mill location	Type of plant	County	Name and mill location	Type of plant
Rio Arriba	Vaughn Sawmill Inc. P.O. Box 246 Vallecitos, NM 87581 505-582-4227 Carroll Vaughn, President	Sawmill	San Miguel	Air-Lock Log Co., Inc. P.O. Box 2506 Las Vegas, NM 87701 505-425-8888 Susan Drye, Owner	House log
Rio Arriba	Wellyn, Inc. P.O. Box 331 Chama, NM 87520 505-756-2344 Jimmy Carson, Partner	House log	San Miguel	Bartley Mill and Lumber Co. Rt. 1, Box 18 Rociada, NM 87742 505-425-7038 John F. Bartley, Owner	Sawmill/ fuelwood yard
Sandoval	Blackjack Timber Inc. MTN. Rt. Box 3 Jemez Springs, NM 87027 505-829-3860 Wayne W. Lewis, President	Sawmill	San Miguel	Montana de Fibra P.O. Box 1427 Las Vegas, NM 87701 505-425-5211	Fiber board
Sandoval	Duke City Lumber Co. P.O. Box 25807 Albuquerque, NM 87125 505-848-3649 Mill location: Cuba	Sawmill	Santa Fe	Norton Hill Wood Co., Inc. 701 Airport Rd. Santa Fe, NM 87501 505-471-2456 John Alexander, Owner	Sawmill/ post and pole yard
Sandoval	New Mexico Log Homes P.O. Box 342 Regina, NM 87046 505-289-3959 Robert Applegate, Owner	Sawmill	Taos	LaLama - Junction Sawmill P.O. Box 31 Questa, NM 87556 505-586-1084 Abenacio Cordova, Owner	Sawmill
Sandoval	Shollenbarger Wood Treating P.O. Box 1084 Bernalillo, NM 87004 505-867-2343 Carl Monroe, General Mgr.	Post and Pole	Taos	J. L. Romero Sawmill and Lumber Co. P.O. Box 332 Taos, NM 87571 505-758-4772 Julian L. Romero, Owner	Sawmill
Sandoval	Young's Sawmill P.O. Box 158 Cuba, NM 87013 505-289-3479	Sawmill			

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McLain, William H. 1989. New Mexico's timber production and mill residue, 1986. Resour. Bull. INT-59. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Research Station. 17 p.

Reports 1986 timber production estimates for New Mexico by county, species, owner, and product. Also reports estimates of mill residue by use. Data obtained by canvassing primary wood processors in New Mexico and out-of-State mills receiving logs harvested in New Mexico.

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KEYWORDS: timber products output, industrial roundwood, primary wood products

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